

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-37. (Canceled)

38. (New) A method of video conferencing, comprising:

establishing a circuit-switched connection between a first party and a second party;
retrieving, responsive to establishment of the circuit-switched connection, network
addresses associated with each of the first and second parties from a remote database; and
establishing, based on the retrieved network addresses, a packet-switched connection
between the first party and the second party to transmit video.

39. (New) The method of claim 38, wherein the circuit-switched connection is established to
transmit audio.

40. (New) The method of claim 38, wherein the packet-switched connection is further
established to transmit audio.

41. (New) The method of claim 39, wherein the video is transmitted contemporaneously with
the audio.

42. (New) The method of claim 39, wherein the circuit-switched connection connects a first telephone associated with the first party to a second telephone associated with the second party.

43. (New) The method of claim 39, wherein the packet-switched connection is established across an Internet.

44. (New) The method of claim 39, wherein the packet-switched connection connects a first computer associated with the first party to a second computer associated with the second party.

45. (New) The method of claim 42, wherein a first telephone number is associated with the first telephone and a second telephone number is associated with the second telephone.

46. (New) The method of claim 45, wherein retrieving network addresses from the remote database comprises:

performing a look-up of the remote database using the first and second telephone numbers to retrieve the network addresses.

47. (New) The method of claim 38, wherein the network addresses comprise Internet Protocol (IP) addresses.

48. (New) A server, comprising:

a memory configured to store a look-up table that associates telephone numbers with network addresses;

a communication interface configured to:

receive a called party telephone number and a calling party telephone number associated with a connection in a circuit-switched network; and

processing logic configured to:

retrieve a first network address associated with the called party telephone number and a second network address associated with the calling party telephone number from the look-up table,

wherein the communication interface is further configured to:

send a first message to a first node, associated with the called party number, wherein the first message comprises the second network address, and

send a second message to a second node, associated with the calling party number, wherein the second message comprises the first network address.

49. (New) The server of claim 48, wherein the network addresses comprise Internet Protocol (IP) addresses.

50. (New) The server of claim 48, wherein the first message is sent to the first node via instant messaging.

51. (New) The server of claim 50, wherein the second message is sent to the second node via instant messaging.

52. (New) A method of video conferencing, comprising:

establishing a circuit-switched connection between a calling party number and a called party number;

retrieving a first network address associated with the calling party number and a second network address associated with the called party number from a remote database; and

transmitting audio data via the circuit-switched connection; and

transmitting packetized video between the retrieved first and second network addresses via a packet-switched network, responsive to establishment of the circuit-switched connection, wherein the first and second network addresses comprise Internet Protocol (IP) addresses.

53. (New) A data structure encoded on a computer readable medium, comprising:

first data indicating a first identifier associated with a first telephone that transmits first audio data via a circuit-switched network;

second data referenced to the first data, the second data indicating a first network address of a first node in a packet-switched network that transmits first packetized video, the first audio data and first packetized video comprising a first video conference session;

third data indicating a second identifier associated with a second telephone that transmits second audio data via the circuit-switched network; and

fourth data referenced to the third data, the fourth data indicating a second network address of a second node in the packet-switched network that transmits second packetized video, the second audio data and second packetized video comprising a second video conference session.

54. (New) The data structure of claim 53, wherein each of the first and second network addresses comprises an Internet Protocol (IP) address.

55. (New) The data structure of claim 53, wherein each of the first and second identifiers comprises a telephone number.

56. (New) A method of assisting in the establishment of a packet-switched connection between nodes in a packet-switched network, comprising:

receiving a plurality of telephone numbers;

receiving a plurality of network addresses in a packet-switched network;

associating each of the plurality of telephone numbers with a respective one of the plurality of network addresses in a database;

retrieving from the database, based on the establishment of a circuit switched connection between two telephone numbers of the plurality of telephone numbers, respective network addresses associated with each of the two telephone numbers; and

assisting in the establishment of a packet-switched connection between two nodes in the packet-switched network using the respective network addresses, wherein each of the two nodes is associated with a different one of the two telephone numbers.

57. (New) The method of claim 56, wherein the network addresses comprise Internet Protocol (IP) addresses.

58. (New) The method of claim 56, wherein the packet-switched network comprises an Internet.

59. (New) The method of claim 56, wherein the retrieving from the database further comprises:

retrieving the respective network addresses via the packet-switched network.

60. (New) A method of video conferencing, comprising:

establishing a circuit-switched connection between a first party and a second party;

performing a look-up of a table, responsive to establishment of the circuit-switched connection, to retrieve a first network address associated with the first party and a second network address associated with the second party;

using instant messaging to send the first network address to a first node associated with the second network address and to send the second network address to a second node associated with the first network address; and

establishing, based on the first and second network addresses received at the first and second nodes, a packet-switched connection between the first party and the second party to transmit video.

61. (New) The method of claim 60, wherein the table is stored at a location remote from the first party and the second party.

62. (New) The method of claim 60, wherein the first network address and the second network address comprise addresses in a packet-switched network.

63. (New) The method of claim 62, wherein the packet-switched network comprises an Internet.

64. (New) The method of claim 63, wherein the first network address and the second network address comprise Internet Protocol (IP) addresses.

65. (New) A server, comprising:

a memory configured to store a look-up table that associates telephone numbers with network addresses;

a communication interface configured to:

receive a called party telephone number and a calling party telephone number associated with a connection in a circuit-switched network; and

processing logic configured to:

perform a look-up of the table to retrieve a first network address associated with the called party telephone number and a second network address associated with the calling party telephone number;

wherein the communication interface is further configured to:

use instant messaging to send the first network address to a first node associated with the second network address and to send the second network address to a second node associated with the first network address